

**WHAT IS CLAIMED IS**

## 1. A wireless LAN base station device, comprising:

plural antennas for making communication with a wireless terminal;

5 plural transmission-reception portions connected to said  
plural antennas;

plural control processors for controlling said plural transmission-reception portions: and

10 a central processor for controlling said plural control  
processors.

wherein each transmission-reception portion measures a reception level or/and each control processor measures a communication error occurrence rate, and said central processor controls said plural control processors to select said transmission-reception portion so that the reception level is maximum or/and the communication error occurrence rate is minimum.

2. The wireless LAN base station device according to claim 1, wherein said central processor controls said plural control processors to carry out a switching operation of said transmission-reception portions so that the reception level is maximum or/and the communication error occurrence rate is minimum, and transmission/reception is carried out between said wireless terminal and both of the transmission-reception portion carrying out the communications and the switch target transmission-reception portion during a switching period.

25 3. The wireless LAN base station device according to claim 2, wherein each

of the plural control processors is equipped with a switching timer, and said transmission/reception of the transmission-reception portion carrying out the communications is stopped after the switching period.

4. A wireless LAN base station device, comprising:

5                   plural antennas for making communication with wireless terminal;

                          plural transmission-reception portions connected to said plural antennas;

10                   plural control processors for controlling said plural transmission-reception portions; and

                          a central processor for controlling said plural control processors,

                          wherein said central processor controls said plural control processors so that prescribed transmission-reception portions are paused for 15 a time zone in which the communication load is low.

5. The wireless LAN base station device according to claim 4, wherein said central processor has a timer for pausing said prescribed transmission-reception portions for a predetermined period.

6. The wireless LAN base station device according to claim 4, wherein the 20 transmission-reception portions to be paused are transmission-reception portions on which small communication load is imposed in a time zone other than a time zone in which the communication load is small.

7. The wireless LAN base station device according to claim 1, wherein said wireless LAN base station device is separated into a main device and sub 25 devices, and said main device contains said central processor or said central

processor and said plural control processors, and said sub devices contain said plural antennas, said plural transmission-reception portions and said plural control processors, or said plural antennas and said plural transmission-reception portions other than said central processor or said 5 central processor and said plural control processors disposed in said main device.

8. The wireless LAN base station device according to claim 4, wherein said wireless LAN base station device is separated into a main device and sub devices, and said main device contains said central processor or said central 10 processor and said plural control processors, and said sub devices contain said plural antennas, said plural transmission-reception portions and said plural control processors, or said plural antennas and said plural transmission-reception portions other than said central processor or said central processor and said plural control processors disposed in said main 15 device.

9. The wireless LAN base station device according to claim 1, wherein said wireless LAN base station device is constructed by connecting said plural antennas to a device containing said central processor, said plural control processors and said plural transmission-reception portions.

20 10. The wireless LAN base station device according to claim 4, wherein said wireless LAN base station device is constructed by connecting said plural antennas to a device containing said central processor, said plural control processors and said plural transmission-reception portions.

11. A communication method for a wireless LAN base station device 25 including plural antennas for making communications with a wireless

terminal, plural transmission-reception portions connected to said plural antennas, and plural control processors for controlling said plural transmission-reception portions, said method comprising a step of pausing prescribed transmission-reception portions by said control processors for a 5 time zone in which the communication load is low.